Special Issue

Trends and Prospects on Nonlinear Optics with Symmetry/Asymmetry

Message from the Guest Editor

The field of nonlinear optics investigates the behavior of light–matter interactions under intense light conditions, enabling a deeper understanding of the fundamental principles governing nonlinear optical phenomena. Two distinct approaches in nonlinear optics research are asymmetric and symmetric studies, which provide valuable insights into the complex nature of these interactions.

Both asymmetric and symmetric studies on nonlinear optics contribute to our collective knowledge by providing a comprehensive understanding of the underlying principles and mechanisms governing light–matter interactions. These studies pave the way for the development of advanced optical devices, novel material platforms, and cutting-edge applications in fields such as telecommunications, biophotonics, and quantum information processing.

Guest Editor

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

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